

FIG. 1

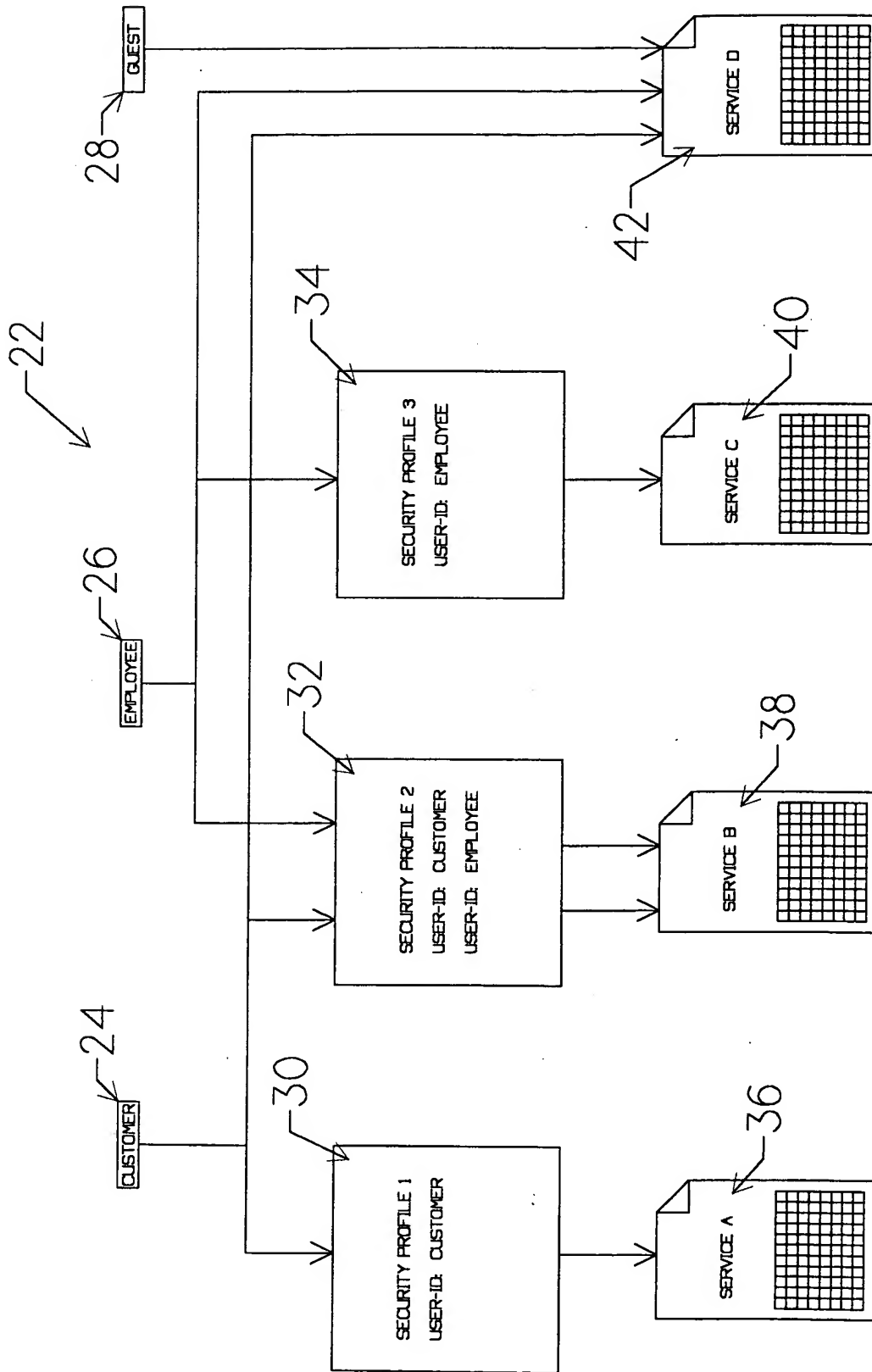


FIG. 2

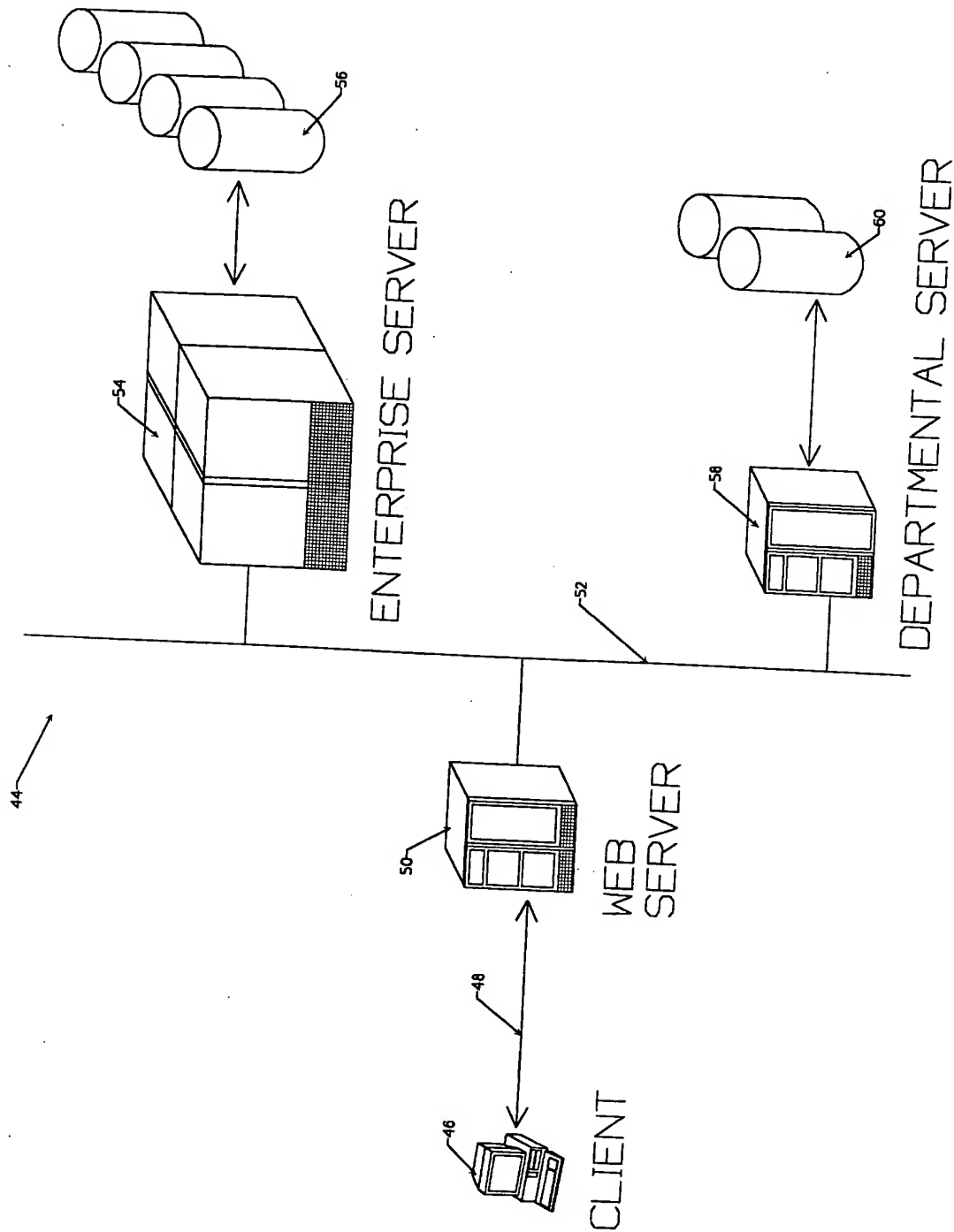


FIG. 3

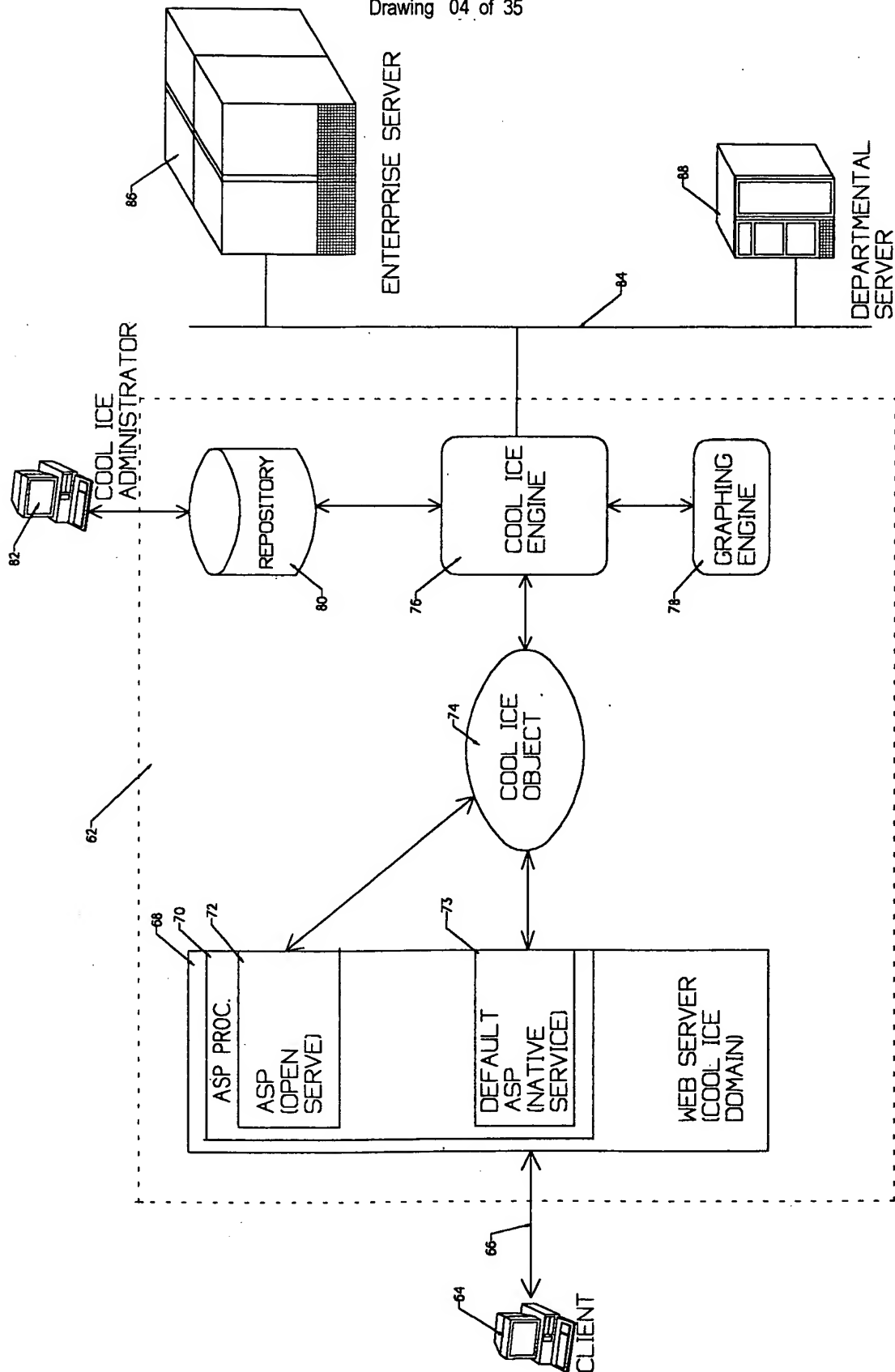


FIG. 4

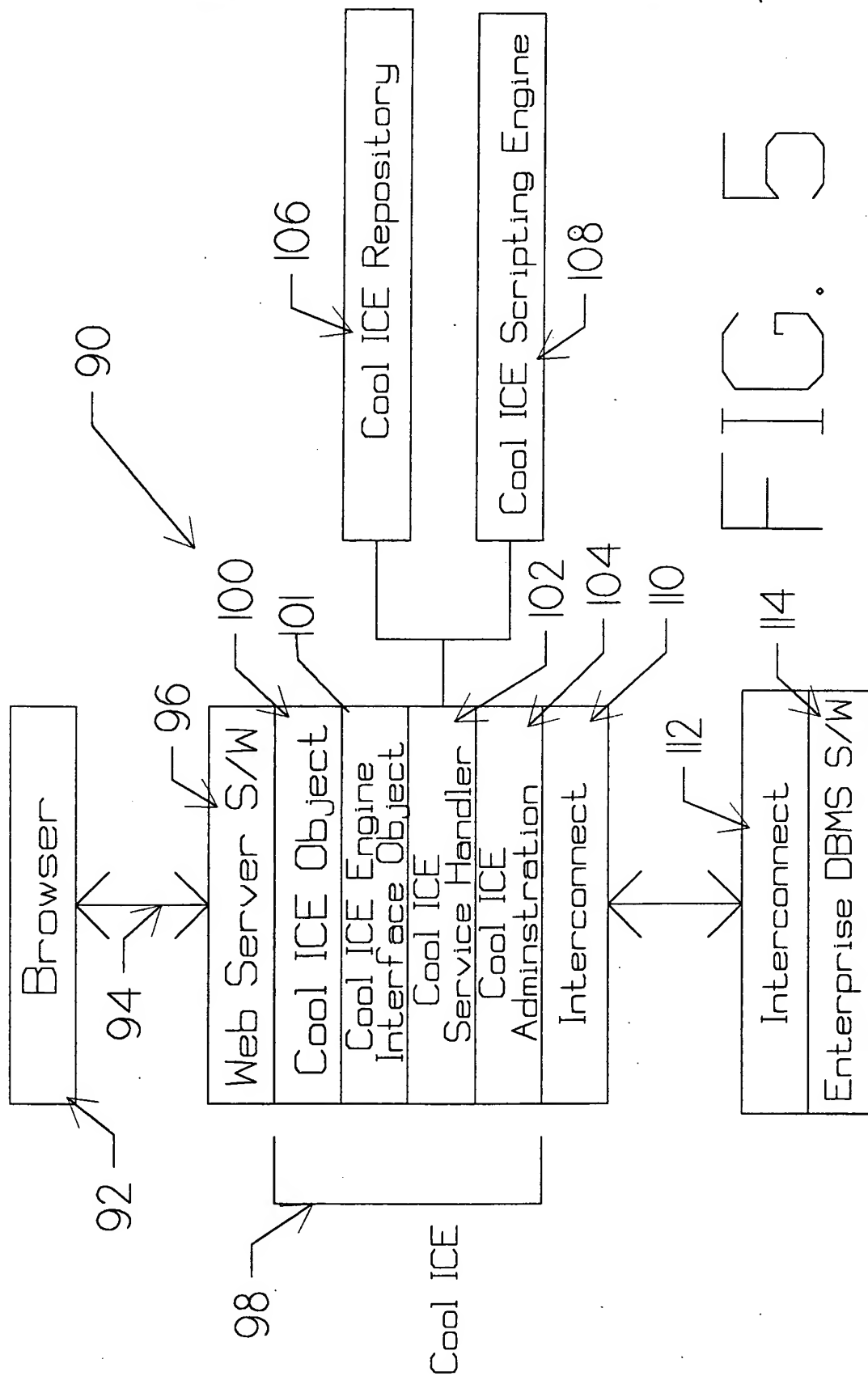


FIG. 5

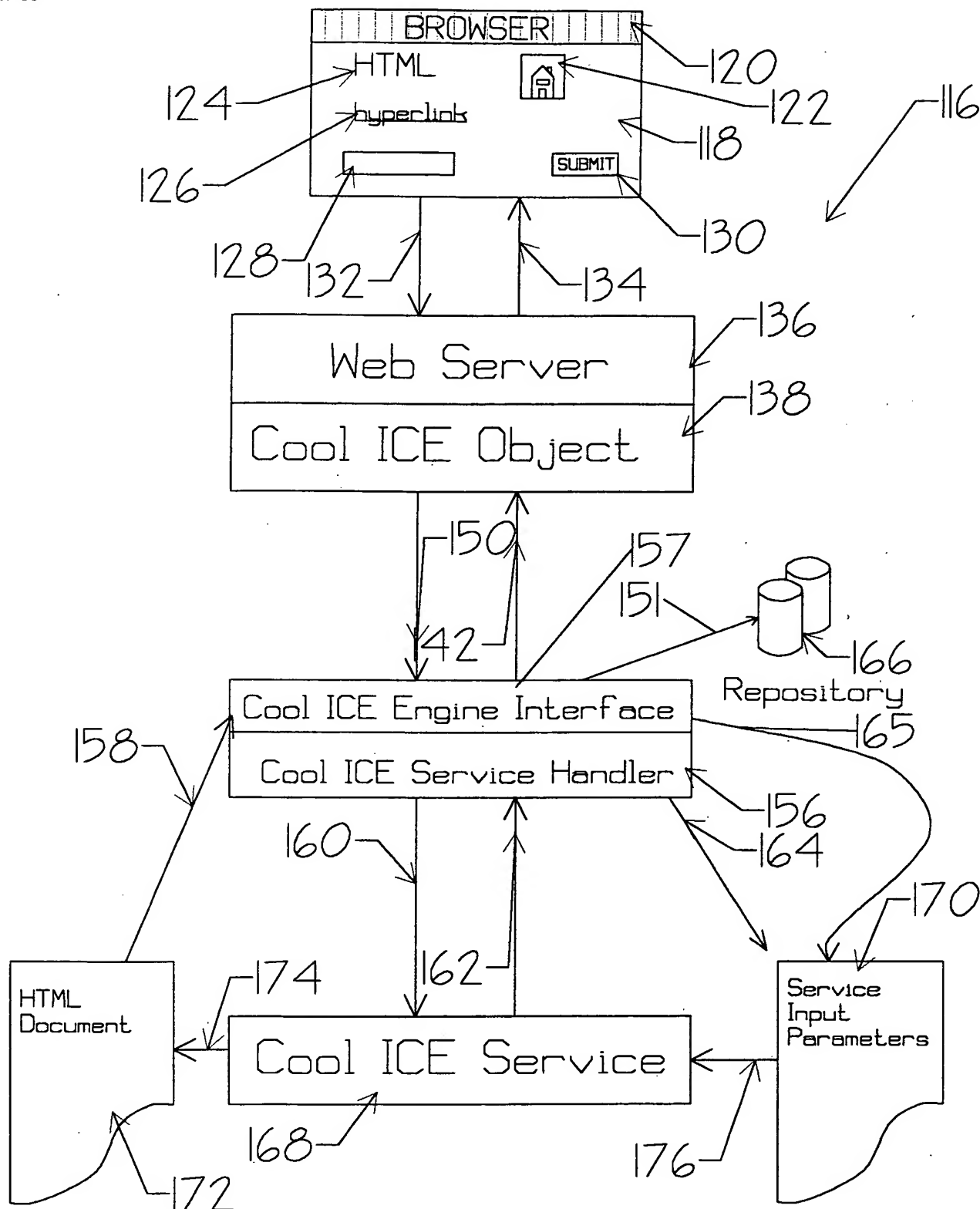


FIG. 6

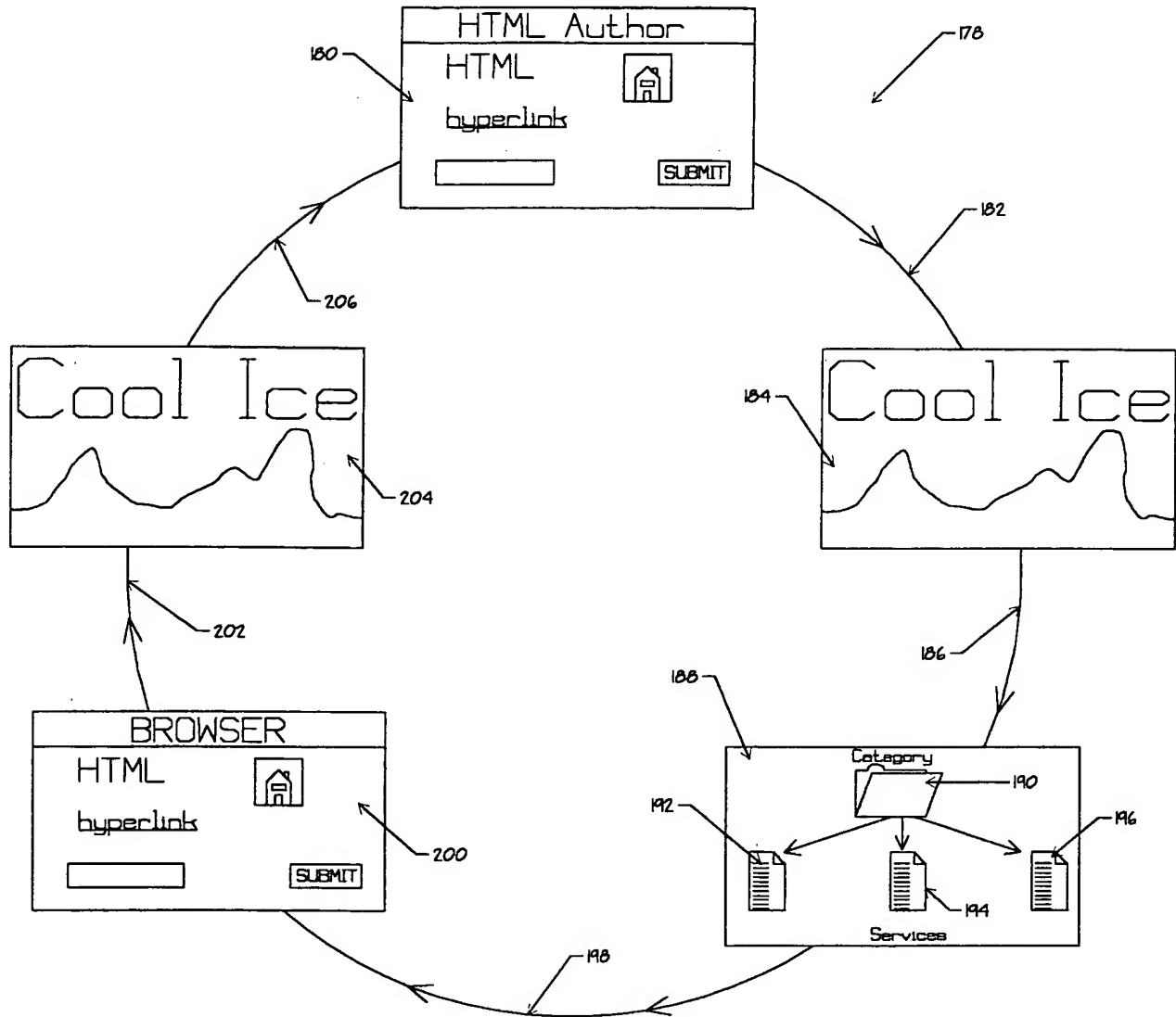


FIG. 7

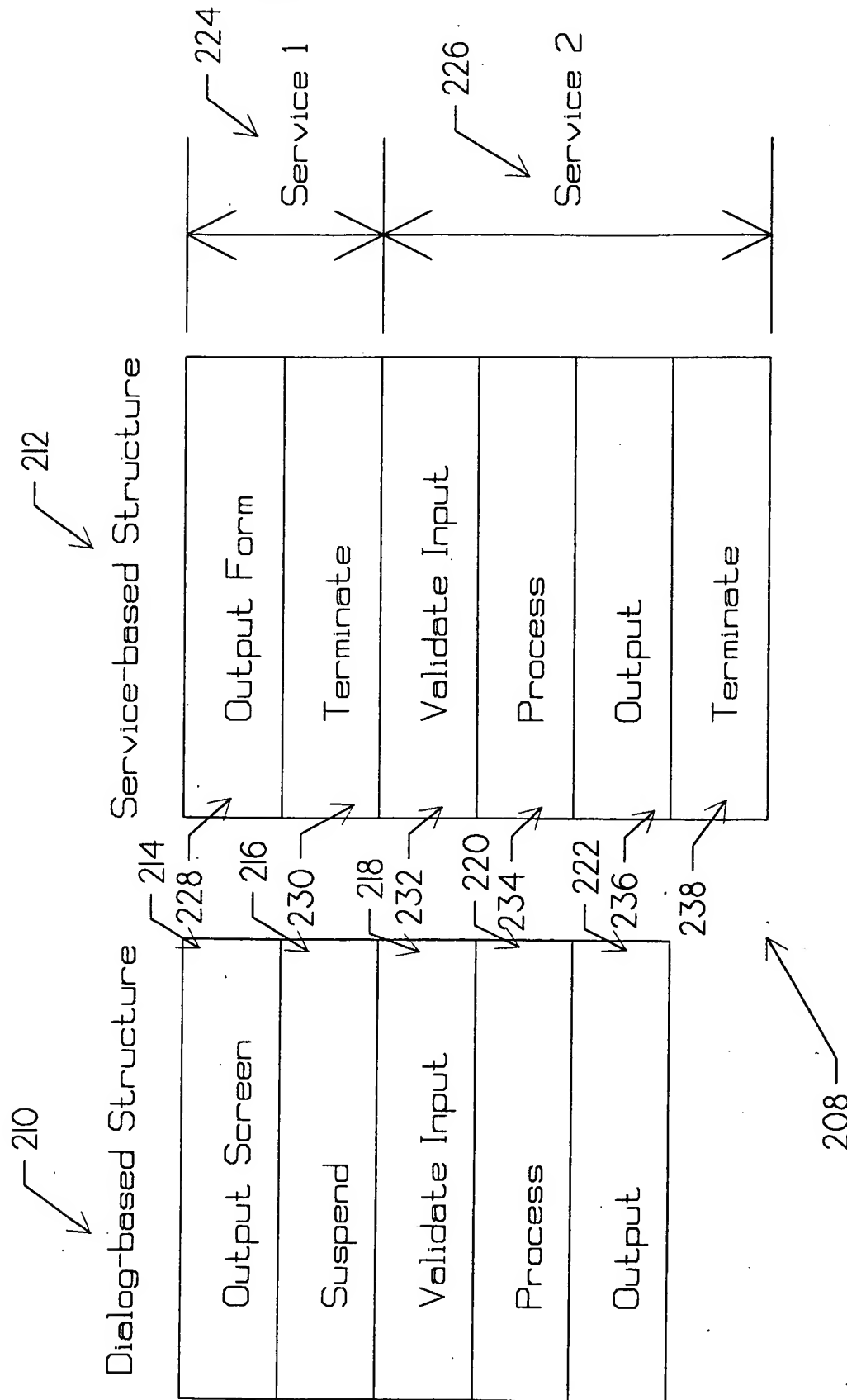


FIG. 8

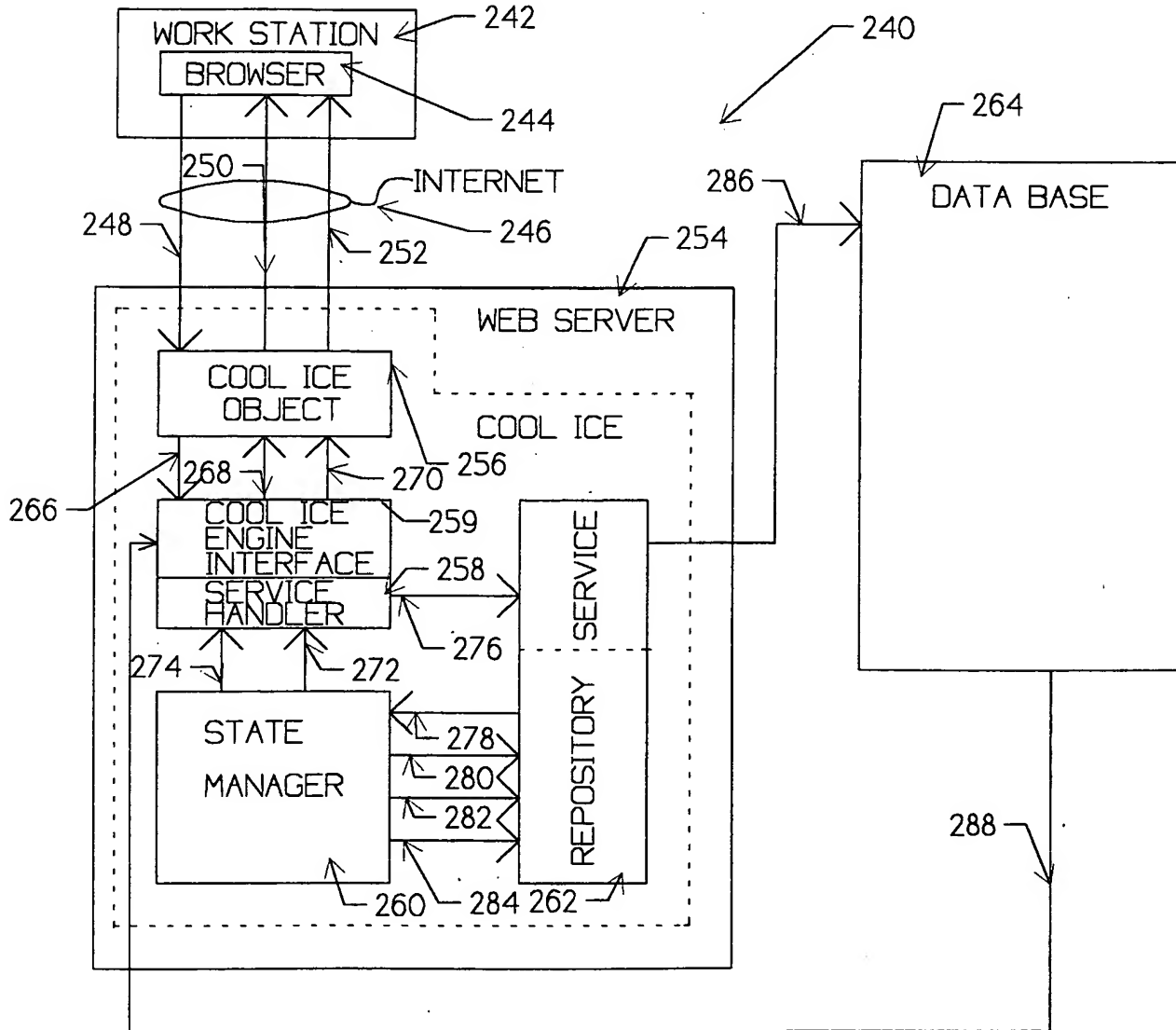


FIG. 9

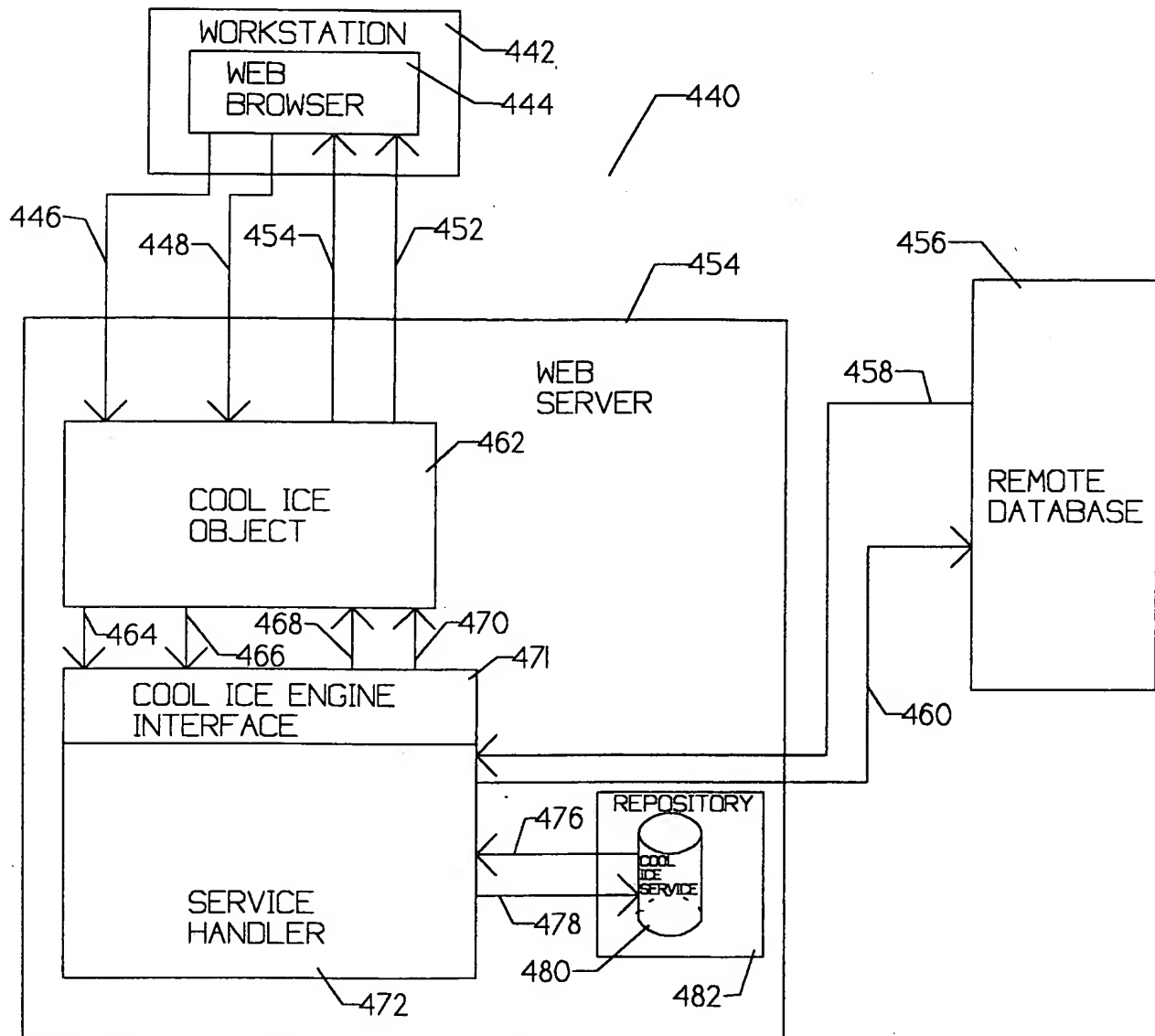


FIG. 10

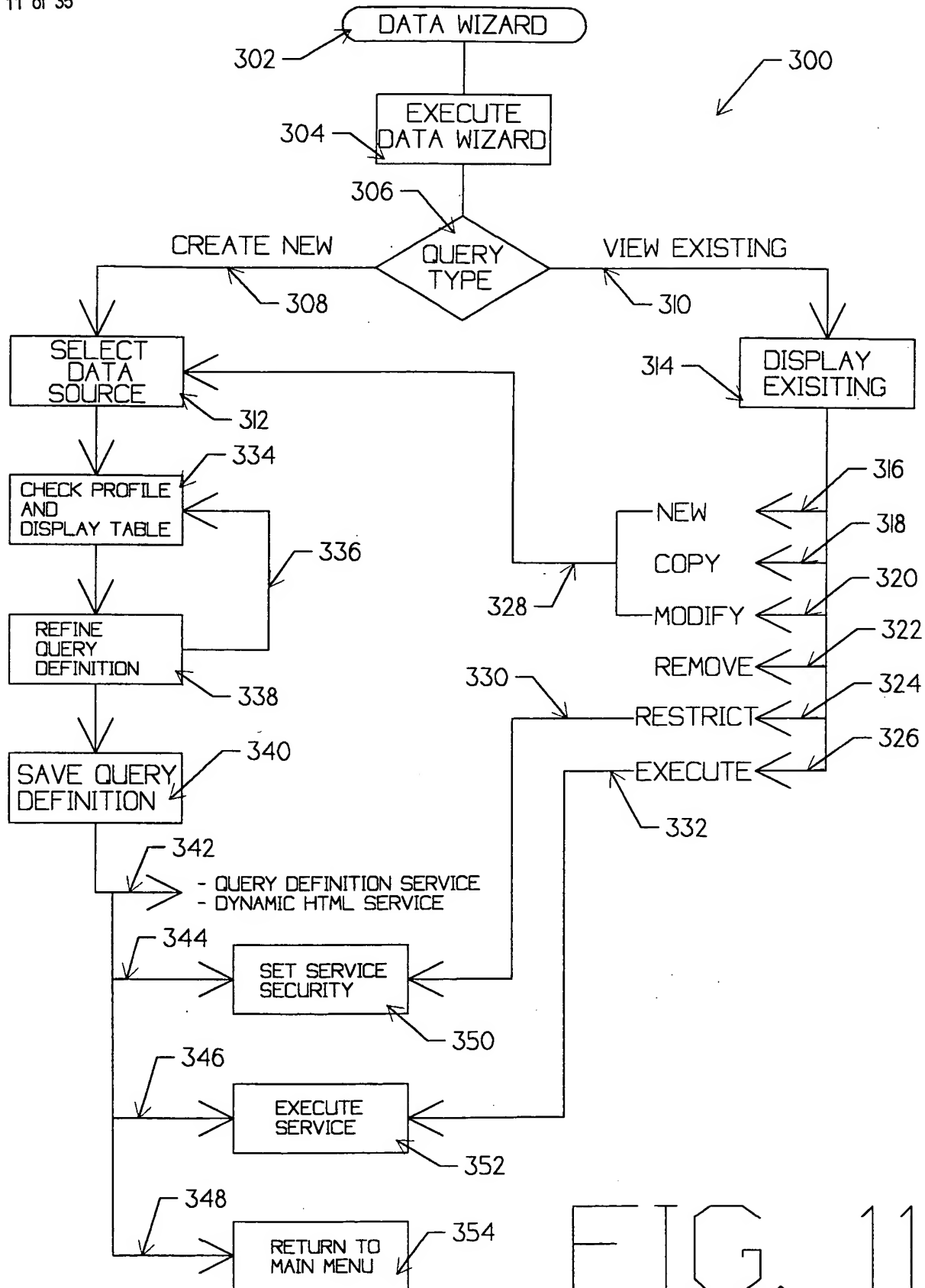


FIG. 11

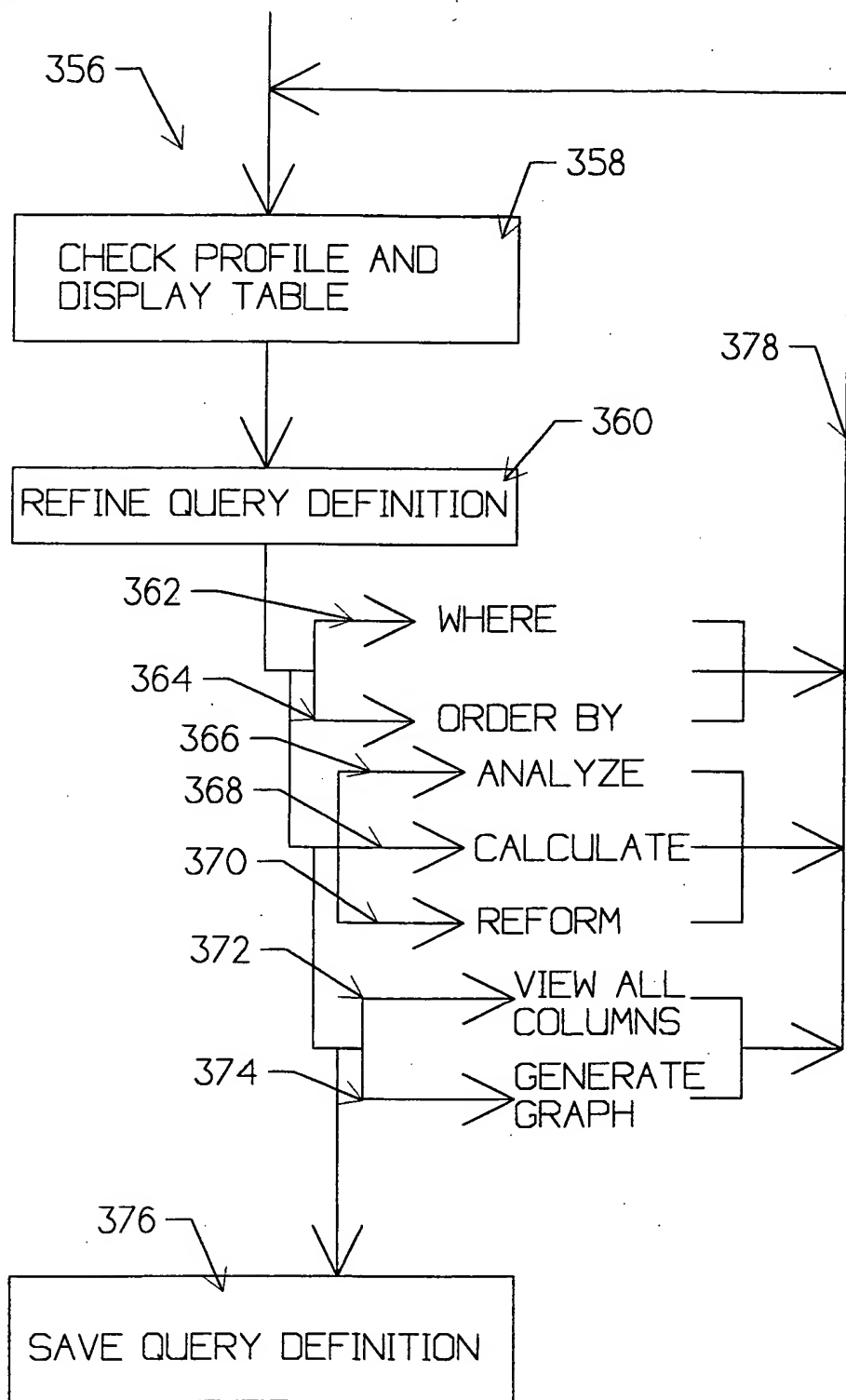


FIG. 12

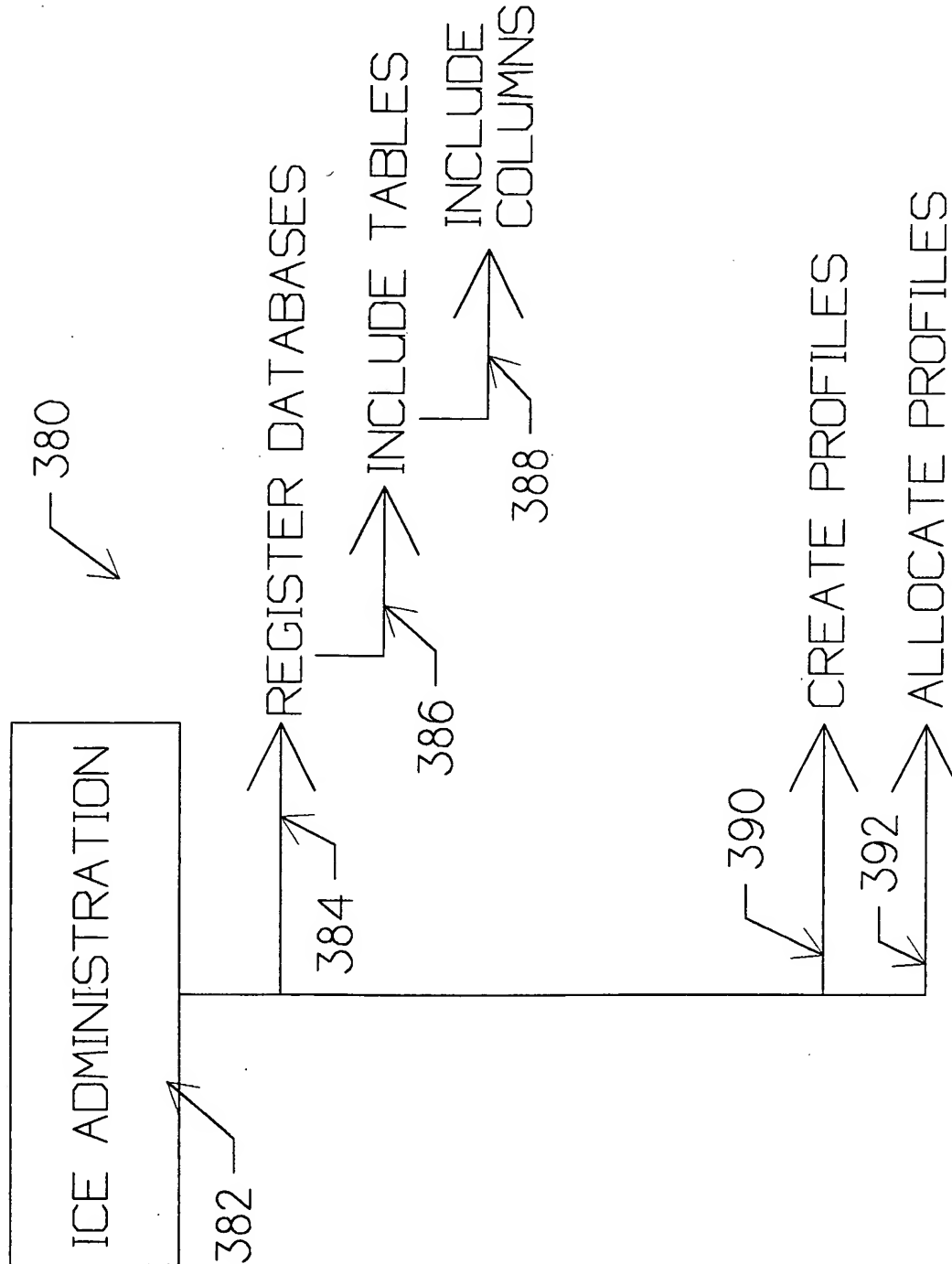


FIG. 13

FIG. 14

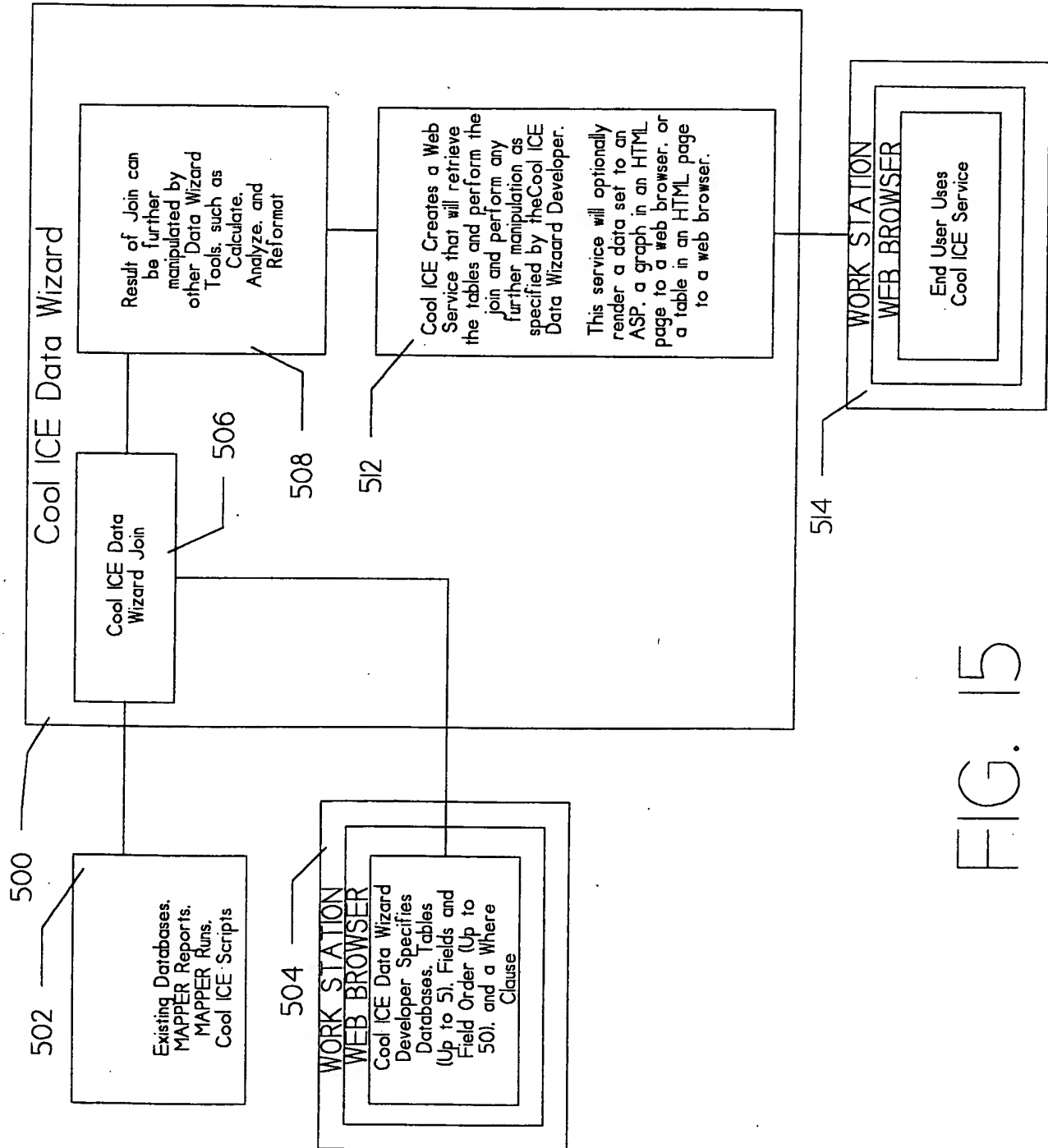
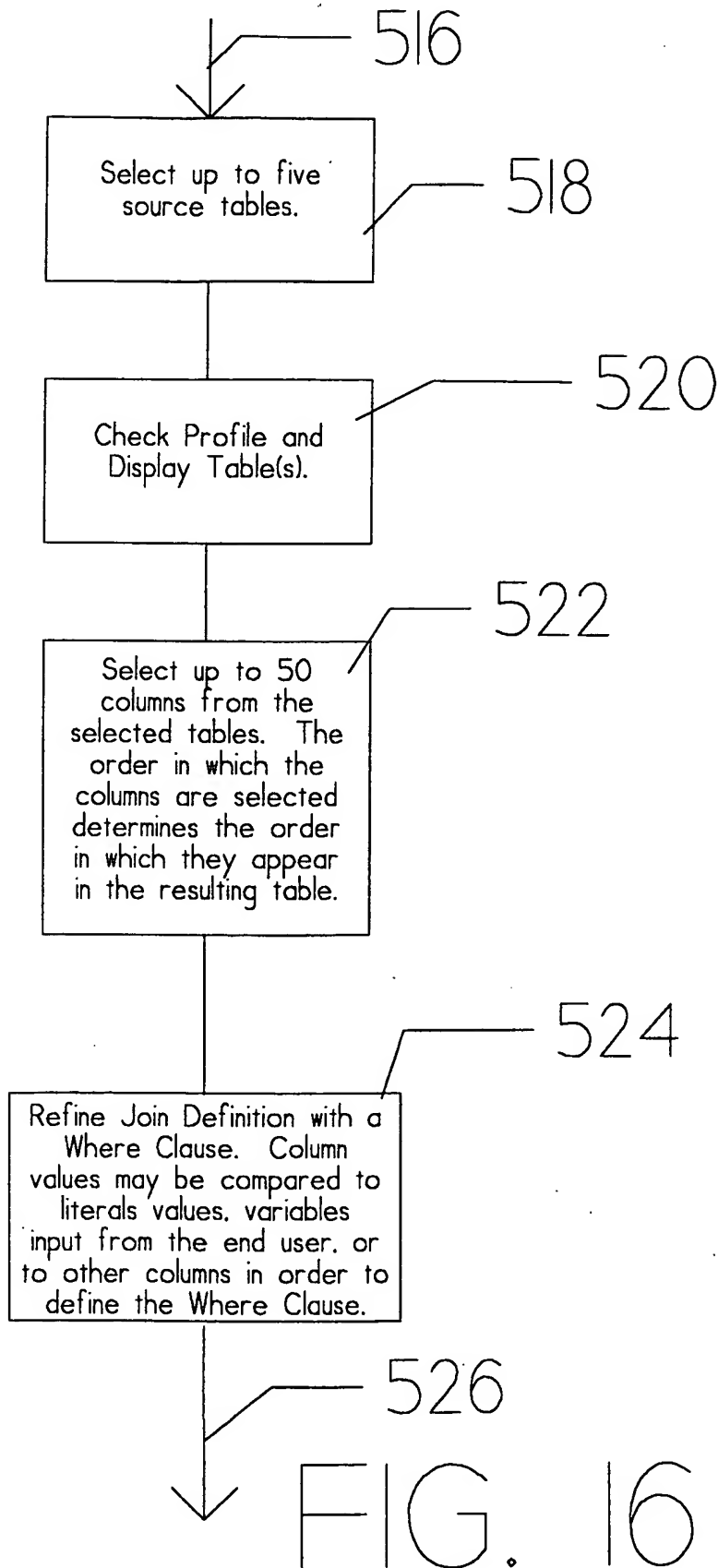


FIG. 15



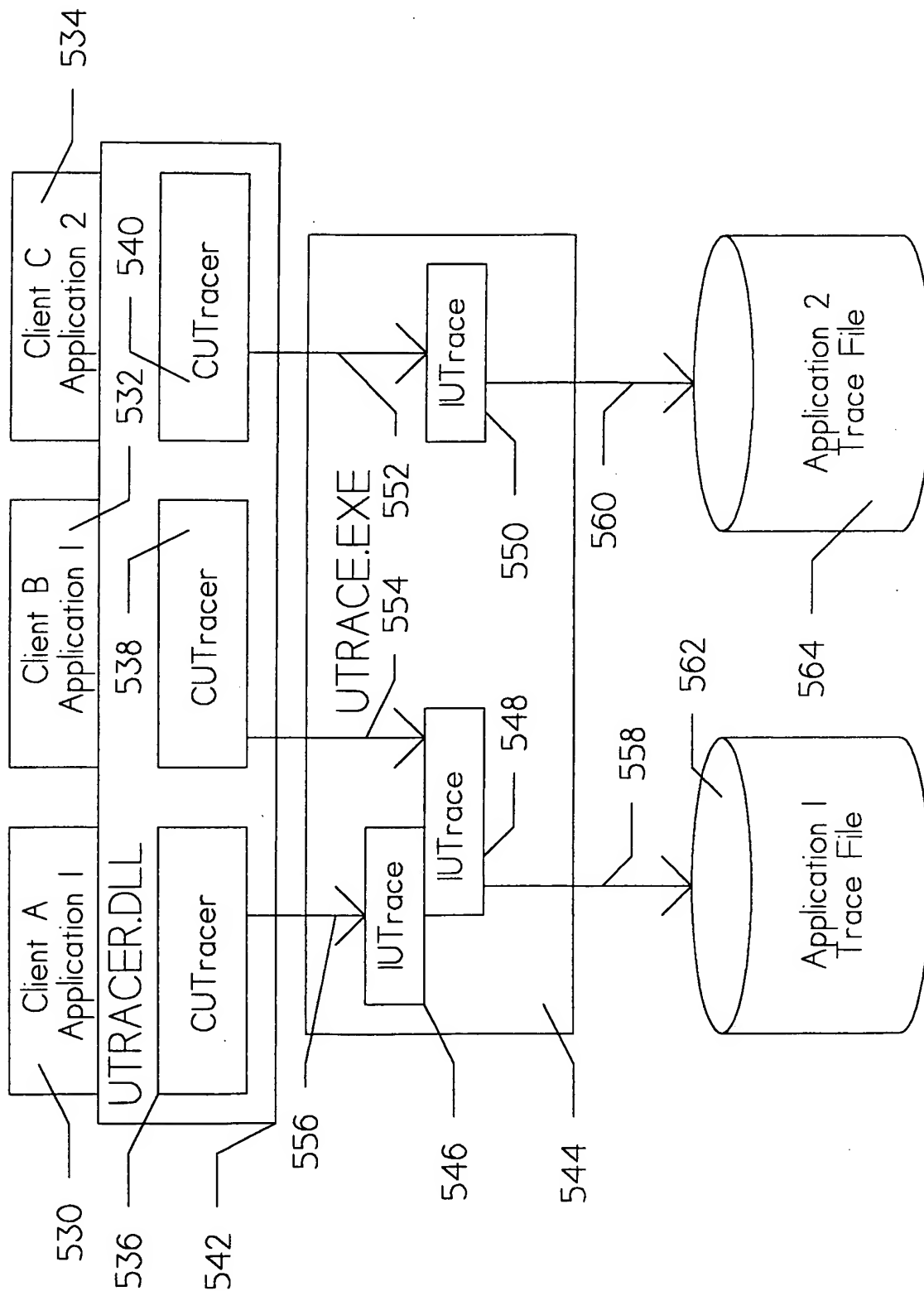


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application 565

ENABLETRACE	-- DWORD value indicating a Boolean (1=trace.. 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

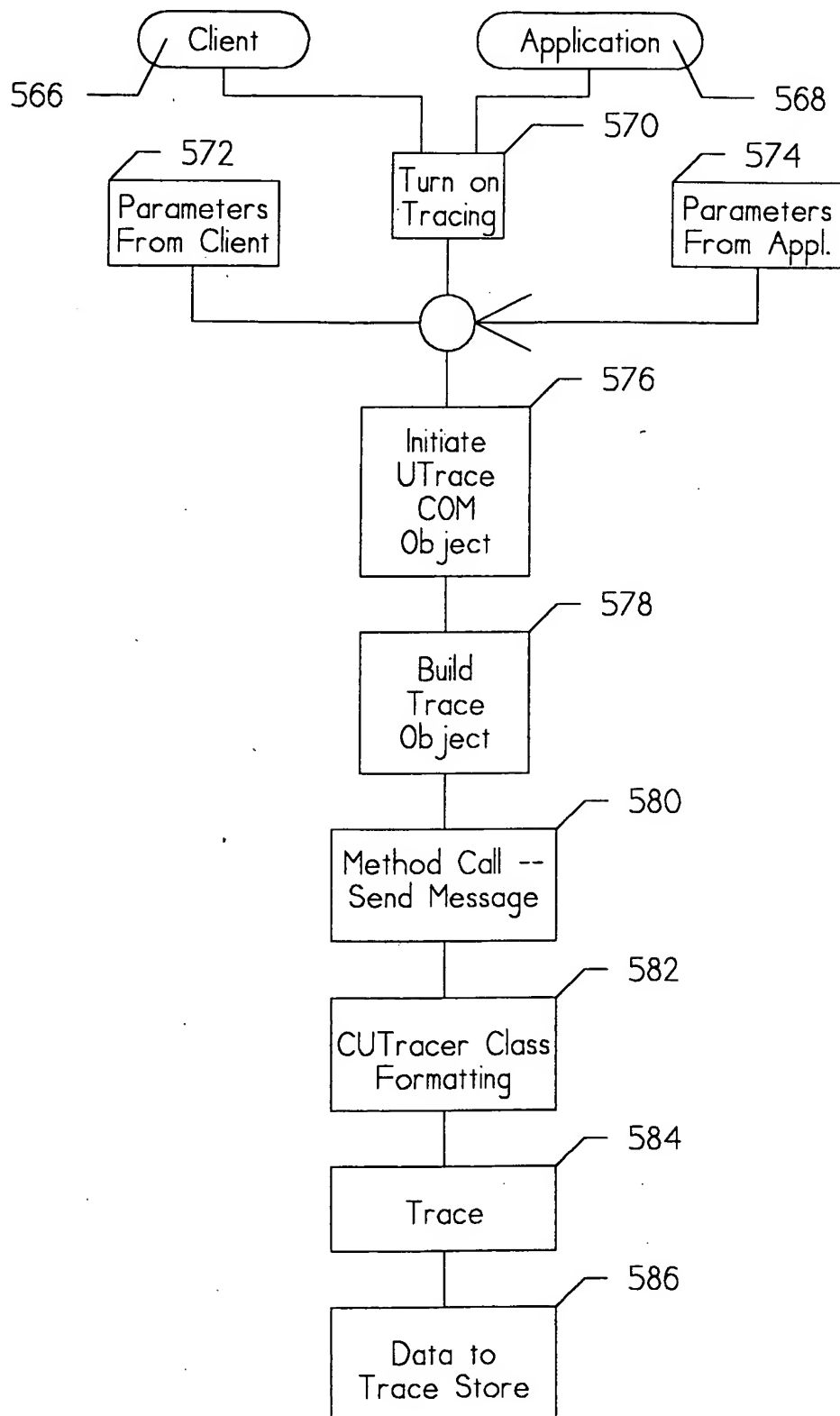


FIG. 19

```
#define CI_TRACE_VERSION      0x1  
#define CI_TRACE_ERROR       0x2  
#define CI_TRACE_INTERFACE    0x4  
#define CI_TRACE_FLOW         0x8  
#define CI_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

21 G. E.

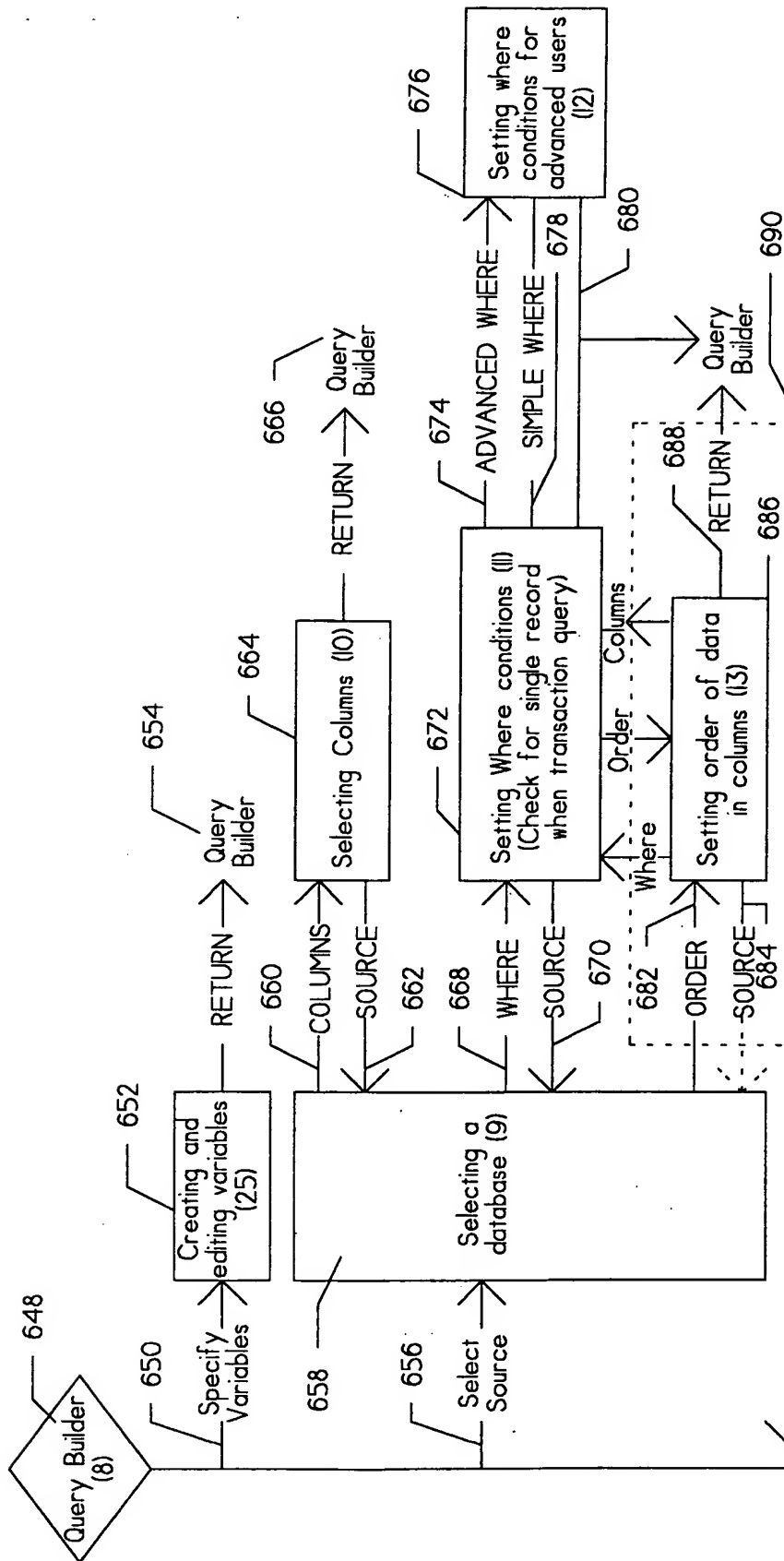


FIG. 22A

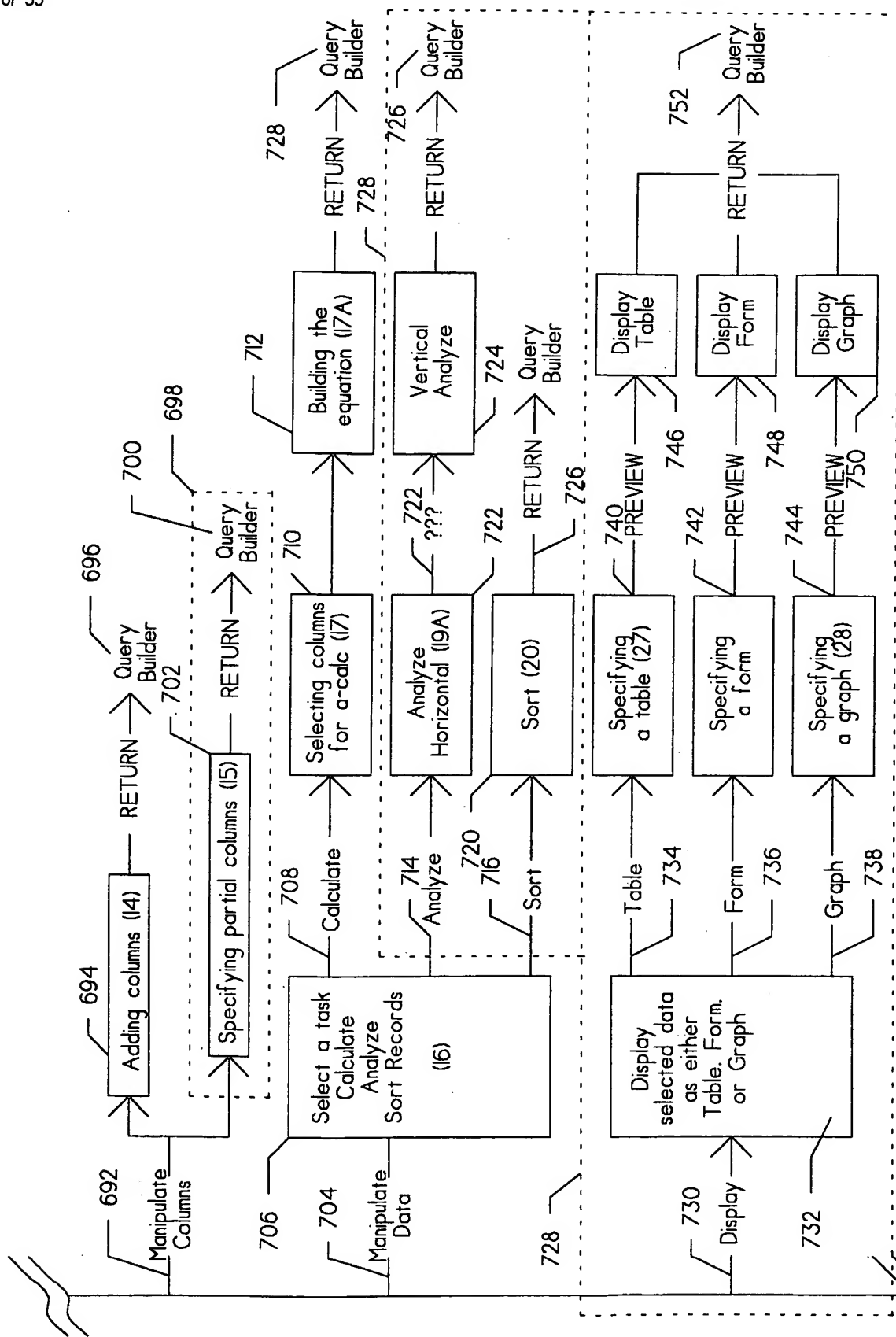


FIG. 22B

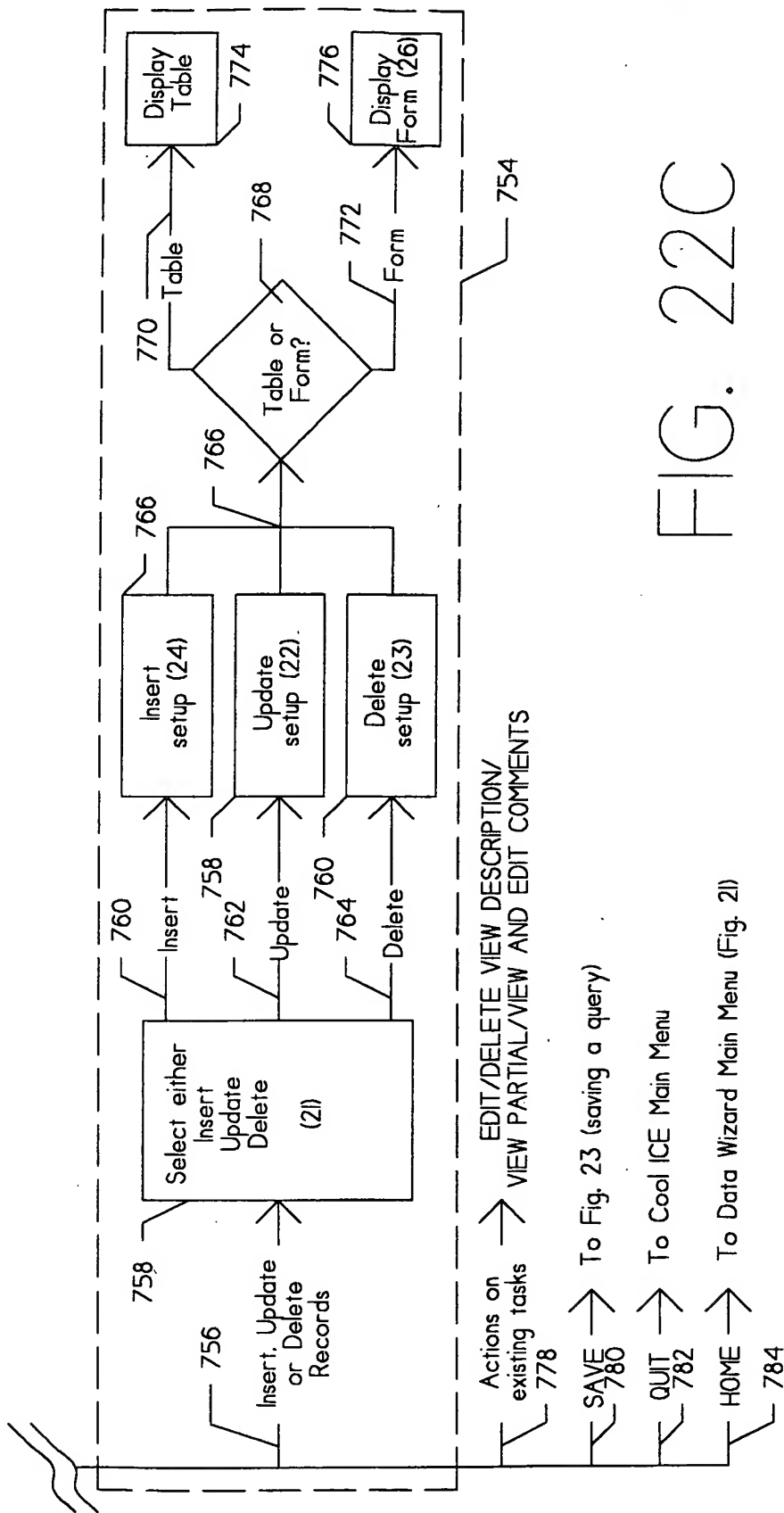


FIG. 22C

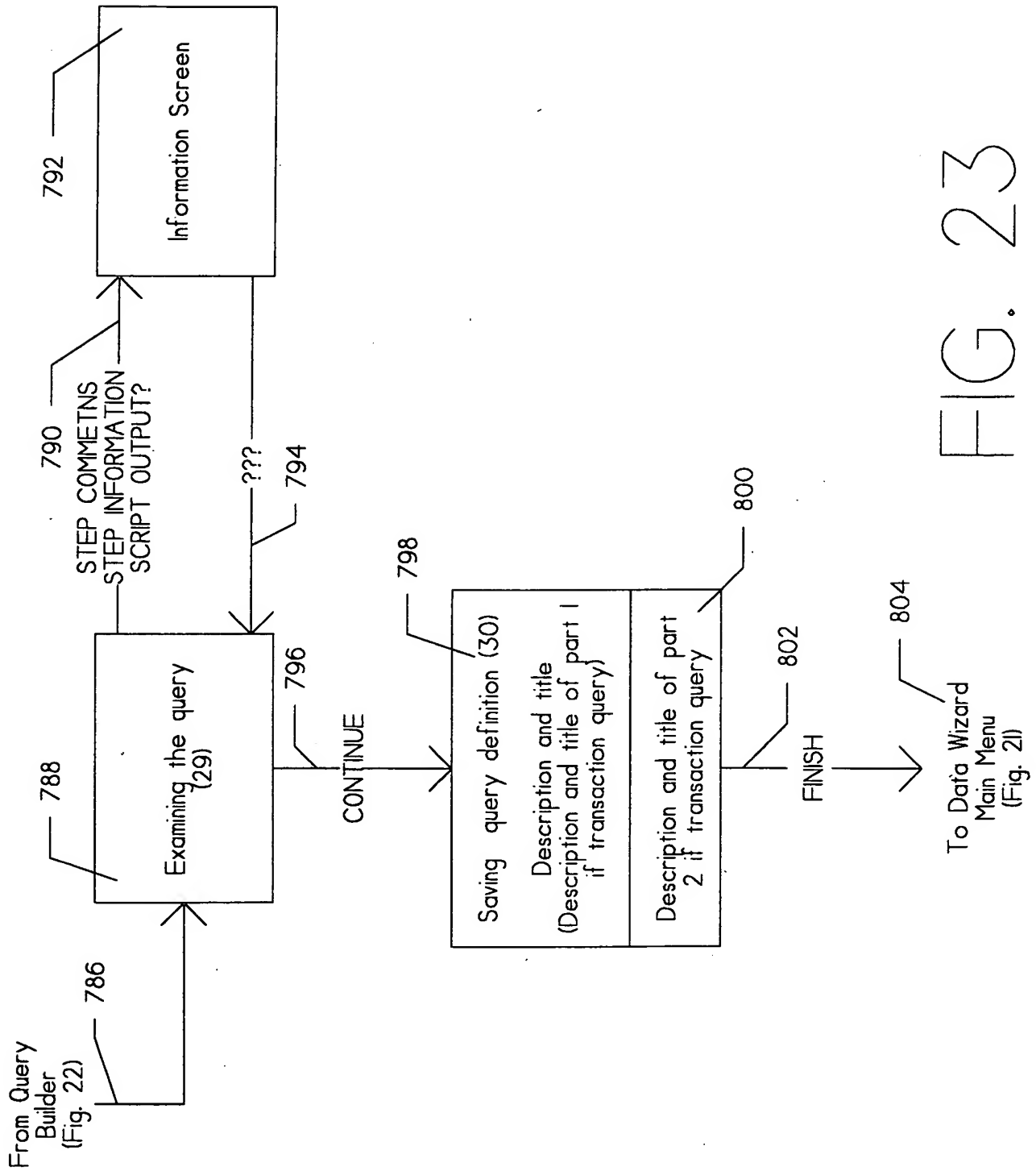


FIG. 23

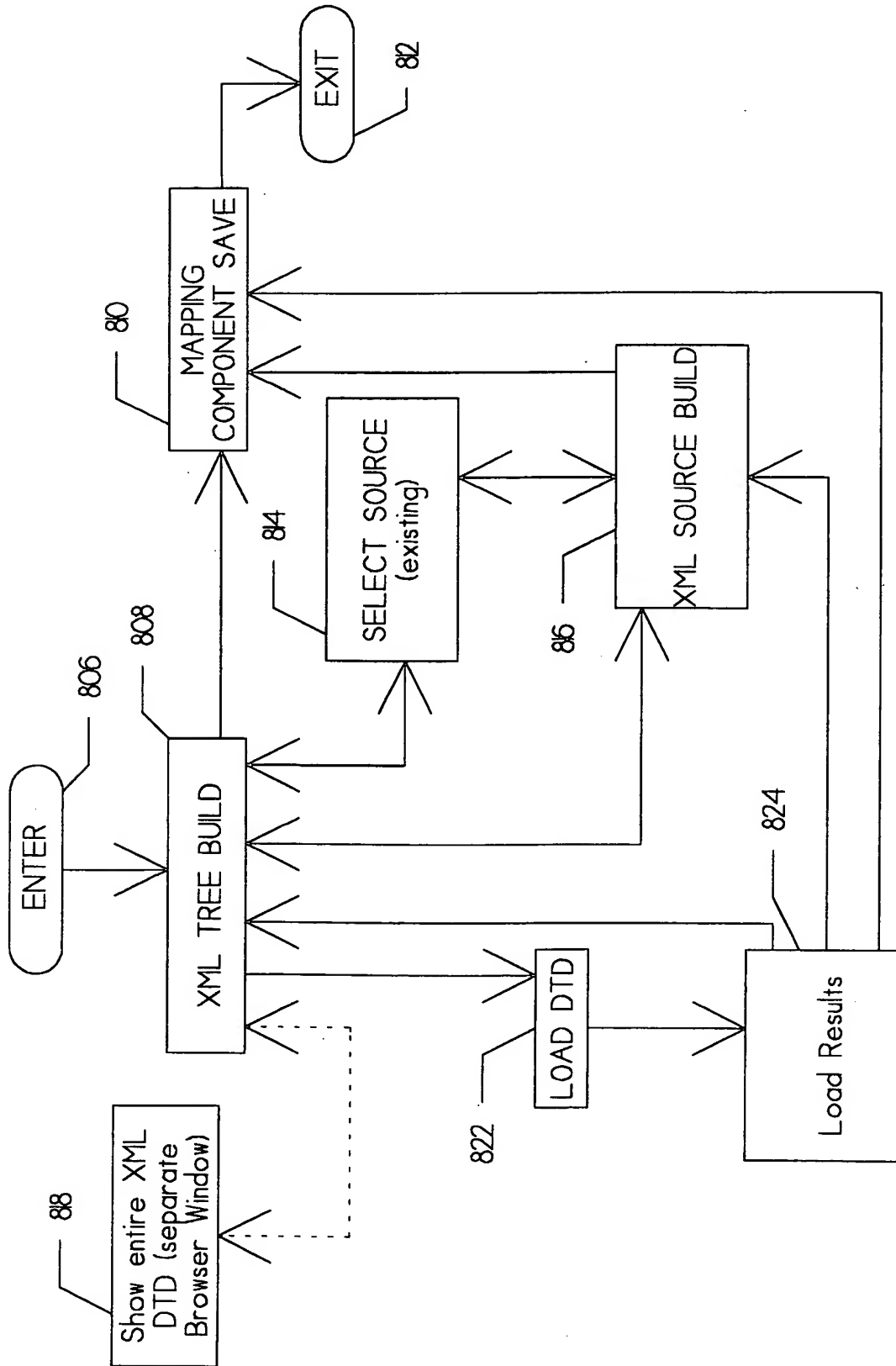


FIG. 24

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

828 XML MAPPING ELEMENTS 872 [Redisplay] 874 [Sources] 876 [Save]

ELEMENTS	858	CONTROLS	866
836 Newspaper	<input type="radio"/> Variables	Mapping Type	Name Conversion
838 Article	<input type="radio"/> Tables	<input type="checkbox"/> Open	<input type="checkbox"/> Capital
840 Article	<input type="radio"/> Article	Table Mapping	868
842 Author	<input type="radio"/> Article	<input type="checkbox"/> Complete	860
844 Editor	<input type="radio"/> Author	Element Properties	
846 Date	<input type="radio"/> Editor	Item Type	Element Form
848 Edition	<input type="radio"/> Date	<input type="checkbox"/> Sequence	<input type="checkbox"/> Rpt
850 Headline	<input type="radio"/> Edition	Mapping	862
852 Byline	<input type="radio"/> Headline	<input type="checkbox"/> Row Iterator	863
854 Lead	<input type="radio"/> Byline	Value	
Body	<input type="radio"/> Lead		

826

FIG. 25

XML -Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

838	<input type="checkbox"/> Newspaper	<input type="radio"/>	<input type="checkbox"/> Tables	Mapping Type <input type="checkbox"/> Open <input checked="" type="checkbox"/> M 868	Name Conversion <input type="checkbox"/> Capital <input checked="" type="checkbox"/> M 864
840	<input type="checkbox"/> Article	<input type="radio"/>	<input type="checkbox"/> Article	Table Mapping <input type="checkbox"/> Complete <input checked="" type="checkbox"/> M 866	
842	<input type="checkbox"/> Author	<input type="radio"/>	<input type="checkbox"/> Author	Element Properties	
844	<input type="checkbox"/> Editor	<input type="radio"/>	<input type="checkbox"/> Editor	Item Type <input type="checkbox"/> Sequence <input checked="" type="checkbox"/> M 860	Element Form <input type="checkbox"/> Rpt <input checked="" type="checkbox"/> M 861
846	<input type="checkbox"/> Date	<input type="radio"/>	<input type="checkbox"/> Date	Mapping <input type="checkbox"/> Row Iterator <input checked="" type="checkbox"/> M 862	Value <input type="text"/> 863
848	<input type="checkbox"/> Edition	<input type="radio"/>	<input type="checkbox"/> Edition		
850	<input type="checkbox"/> Headline	<input type="radio"/>	<input type="checkbox"/> Headline		
852	<input type="checkbox"/> Byline	<input type="radio"/>	<input type="checkbox"/> Byline		
854	<input type="checkbox"/> Lead	<input type="radio"/>	<input type="checkbox"/> Lead		
	<input type="checkbox"/> Body	<input type="radio"/>	<input type="checkbox"/> Body		
	<input type="checkbox"/> Notes	<input type="radio"/>	<input type="checkbox"/> Notes		

Actions ☐ 865

- Clear Mapping
- Add Sibling above
- Add Sibling below
- Add Childred
- Add Attributes
- Delete Branch
- Compact View
- Show Representation

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

UNISYS

Component Builder

Home Quit Cancel Help

871 XML MAPPING ELEMENTS 872 Redisplay 874 Sources 876 Upload DTD Save

ELEMENTS	858	Variables	856	CONTROLS
Root	<input type="checkbox"/>	<input type="radio"/>		Mapping Type <input type="checkbox"/> Open <input type="checkbox"/> M 868
	<input type="checkbox"/>	<input type="radio"/>		Name Conversion <input type="checkbox"/> Capital <input type="checkbox"/> M 864
	<input type="checkbox"/>	<input type="radio"/>		Table Mapping <input type="checkbox"/> Complete <input type="checkbox"/> M 866
	<input type="checkbox"/>	<input type="radio"/>		Element Properties
	<input type="checkbox"/>	<input type="radio"/>		Item Type <input type="checkbox"/> Sequence <input type="checkbox"/> M 860
	<input type="checkbox"/>	<input type="radio"/>		Mapping <input type="checkbox"/> Row Iterator <input type="checkbox"/> M 862
	<input type="checkbox"/>	<input type="radio"/>		Element Form <input type="checkbox"/> Rpt <input type="checkbox"/> M 863
	<input type="checkbox"/>	<input type="radio"/>		Value <input type="checkbox"/> 863

870

FIG. 27

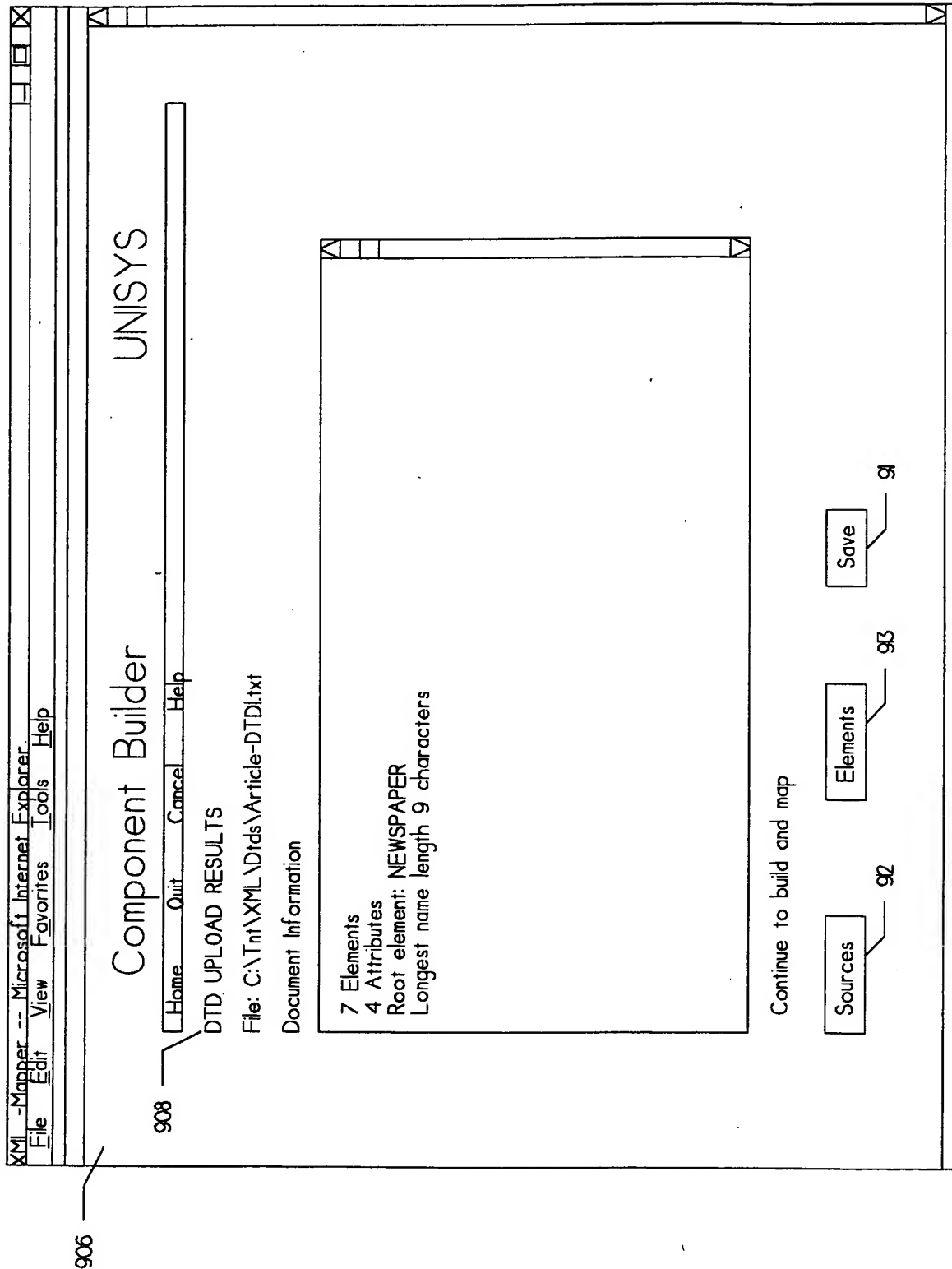


FIG. 28

IDT EXAMPLE

Version:AC:0.0 90
 Truncation:AC:0 92
 TypeCheck:AC:0 93
 ShoeData:ED:0:R 94
 From:DE:I:R
 From:EV:Supplier:20:string
 TableType:ED:I:R
 TableType:EV:TableInfo:50:string
 Inventory:ED:I:R
 Inventory:BT:Inventory:7
 Inventory:IH:ITEMNUMBER:I0
 Inventory:IH:QTY:5
 Inventory:IH:TYPE:I0
 Inventory:IH:GENDER:6
 Inventory:IH:SIZ:3
 Inventory:IH:COLOR:3I
 Inventory:IH:UNITCOST:I3
 Date:AD:I:R
 Date:AV:Date:I0:string
 Time:AD:I:R
 Time:AV:Time:5:string
 Row:ED:2:R
 Row:BR:I
 ItemNr:ED:2:R
 ItemNr:EF:I:ITEMNUMBER:I0:R:string
 Quantity:AD:2:R
 Quantity:AF:I:QTY:5:R:string
 Type:ED:2:R
 Type:EF:I:TYPE:I0:L:string:
 Gender:ED:2:0
 Gender:EF:I:GENDER:6:L:string:UniSex
 Size:ED:2:R
 Size:EF:I:SIZ:3:L:string:
 Color:ED:3:0
 Color:EF:I:COLOR:3I:L:string:White
 Unitcost:ED:2:R
 Unitcost:EF:I:UNITCOST:I3:R:string:
 Row:EE:2
 Row:ER:a
 Inventory:EE:I
 Inventory:ET:I 96

FIG. 29

_____ DID EXAMPLE _____ 918

<!DOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

FIG. 30

XML INPUT DOCUMENT EXAMPLE

920
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
<From>Roseville Store</From>
<TableType>Low Inventory Count</TableType>
<Inventory Date>2000-12-05</Inventory Date>
<Row>
<ItemNr Quantity="0">32335</ItemNr>
<Type>Tennis</Type>
<Gender>Mens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/New Spruce</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35410</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35411</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="2">35420</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Chlorine Blue/Hot Lime</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">37421</ItemNr>
<Type>Golf</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Fluorescent Pink</Color>
<Unitcost>35.00</Unitcost>
</Row>
</Inventory>
</ShoeData>
<Color>White/Black-Hot Lime, Neo Teak</Color>
<Unitcost>40.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">32474</ItemNr>
<Type>Tennis</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Light Marine-Ultramarine</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">35310</ItemNr>
<Type>Running</Type>
<Gender>Mens</Gender>
<Size>6</Size>

FIG. 31

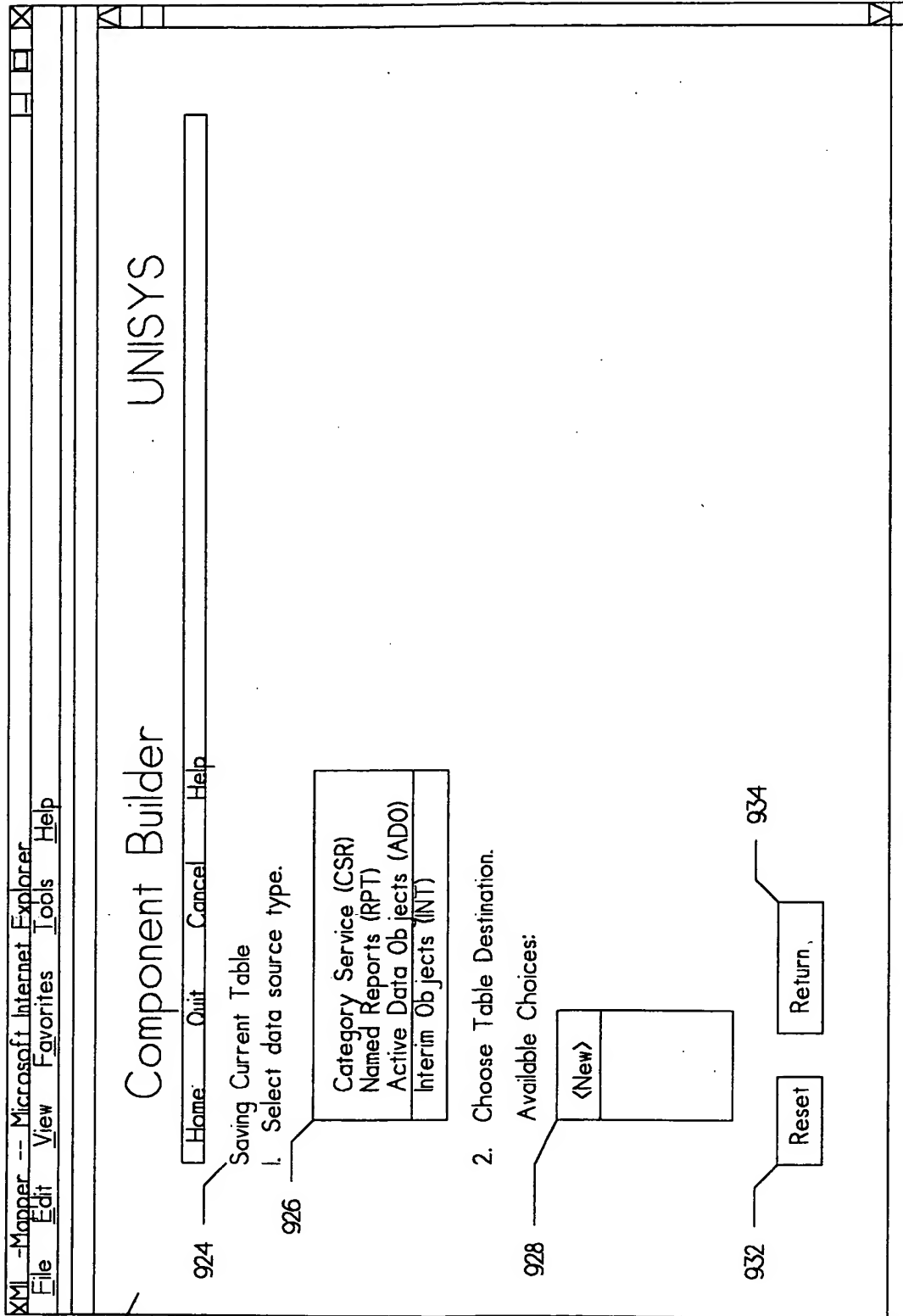


FIG. 32

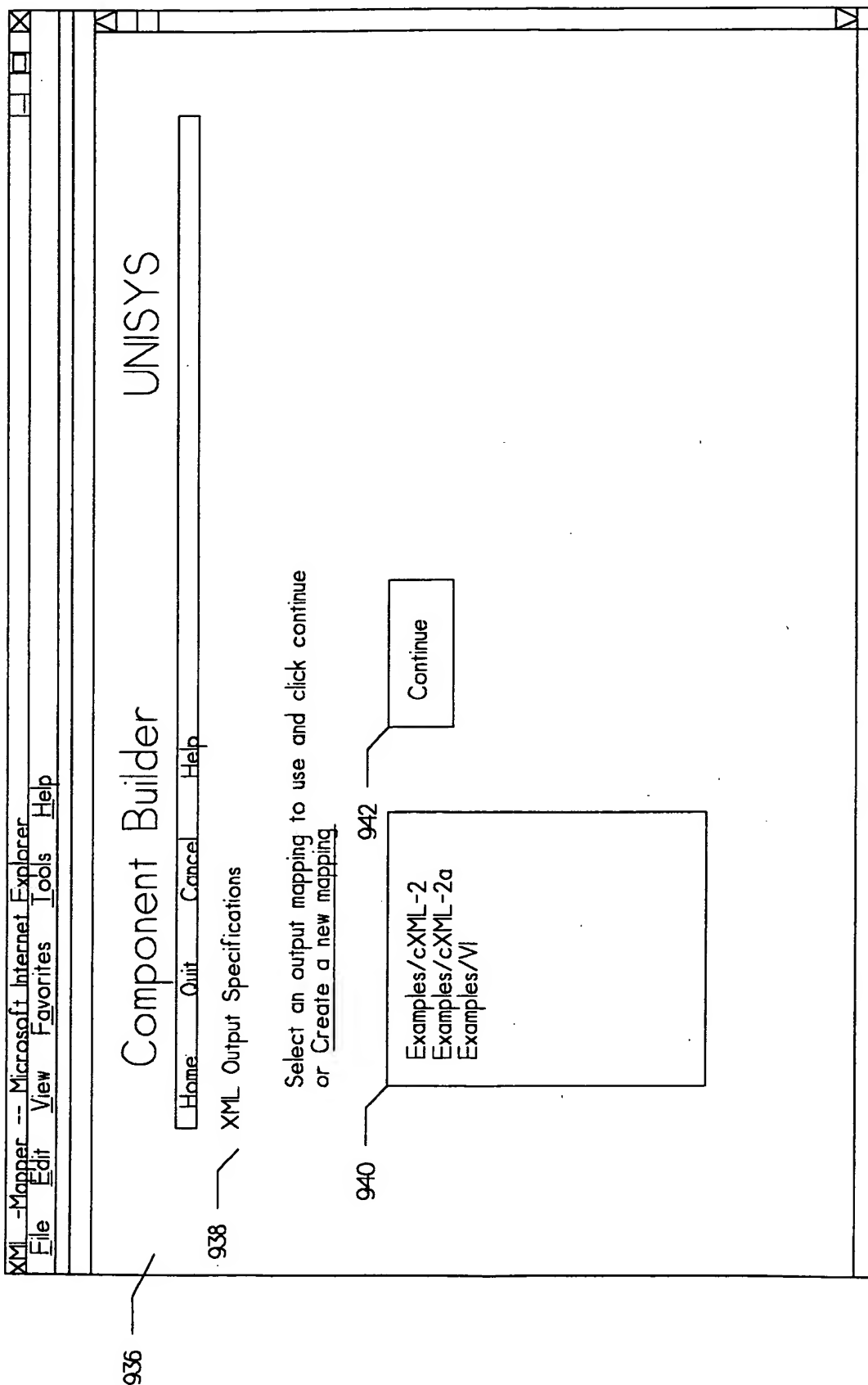


FIG. 33